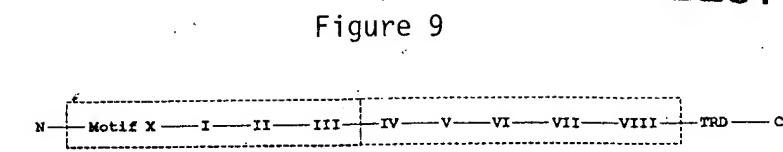
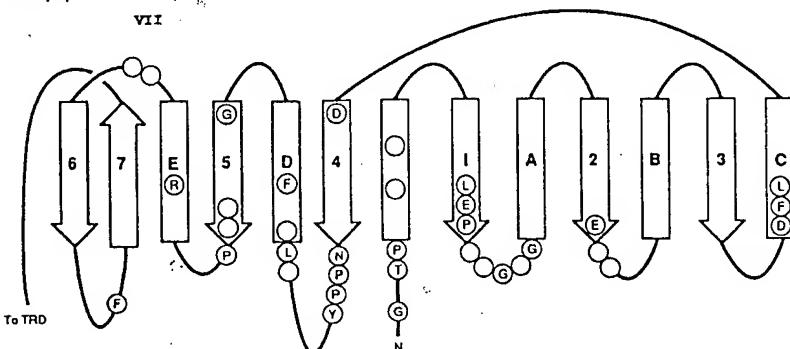


BEST AVAILABLE COPY

Figure 9



Group γ



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		NXXXXXXXLXELVXKYEXXRSTXLXSTYNETXL RSD			
BpmIRM		10	20	30	40
AcuIRM		- - - - - MHI SELVDKYKAHRSTFLKPTYNETQL RND			30
BsgIRM		- - - - MVHDHKLEAKLI RNYETNRKECLNSRYNETLL RSD			36
ThaRM		- - - - MNRVESKKKLEQLVQQFEKYESTYSASDYKEATL RSS			37
		MSNENYNIDFERVKELILKYEQVKKSGEIKTYNEESTKKD			40
 FLDPLFELLGWDXXNXXGTNXXXREVI XEEEXLEX - - EEXX					
BpmIRM		50	60	70	80
AcuIRM		FI DPLLKSLGWDV DNTKGKTHIL RDVI QEEYI EI KDEETK			70
BsgIRM		YLD PFFELLGWDI KNKAGKPTNEREVVLEEAALKASASEHS			76
ThaRM		FLDPFFELFGWE MRPERITNPADLEVII EESLET - - EKST			75
		FI EPLFKSLGWNFSNRGKTNDS - - VSAEETISK - - - -			72
 KXPDYTFRI NGTRKFFVEAKKP - SENIXKXXXKXAFQARRY					
BpmIRM		90	100	110	120
AcuIRM		KNP DYT LRI NGTRKLFV EVKKKP - SFNI LKSAKAAFQTRRY			109
BsgIRM		KKP DYT FRL FSERKFFLEAKKP - SVHI ESDNETAKQVRRY			115
ThaRM		KYI DYVFKI NRTTQFLVEAKKP - AESLSK - KDHI FQAKSY			113
		KRV DYGFR INGI PKFFLEAKPLREENI QNNSKYVTQAI DY			111
 GFTAXLXI SVLTNFEVLVI YDXSXKPDXD - XXXKARXKX					
BpmIRM		130	140	150	160
AcuIRM		GWSANLGI SVLTNFEHLVI YDCRYTPDKSD - NEHI ARYKV			148
BsgIRM		GFTA KLKI SVLSNFEYLVI YDTSVKV DGD - TFKARI KK			154
ThaRM		AFTTEI PFVILTNFKEFRFYDVSTEPLHNQPDTDKVEEYC			153
		AWMKSCSWAI LTNFETVAVYNADWKE SNY G - - - S - NLL			145
 FXYXEYEXXFDEIXDLLSREAVXSGXLDKXXXK - - - -					
BpmIRM		170	180	190	200
AcuIRM		FSYEEYEEAFDEIKDI ISYESANS GALDEMFD - - - -			181
BsgIRM		YHYTEYETHFDEICDLLGRESVYSGNFDKEWLS - - - -			188
ThaRM		FDYKEYVQNF DKLWELFSREAVANRSLAKFYAKRRNI VDS			193
		FILHPNDFLTDERFKYLSKKAFENGELDKI ASK - - - -			179
 - - - - YXNKXXXXXXDXFLQQIXXWREXL AEXI XKN					
BpmIRM		210	220	230	240
AcuIRM		- - - - VNTRVGETFDEYFLQQI ENWREKLAKTAI KN			211
BsgIRM		- - - - IENKI NHFSVDTLFLKQI NTWRLLLGEEI YKY			219
ThaRM		PDLIFKLNYQIDKGASLLDI SFLKNLKI WRKSLAENI FNN			233
		- - - - YGKKQLKNPI DKQLLQDMI HFREVLSKDI VKN			210
 NX - - XLXENEVNEI VQRI LDRLI FL RVCEDRNL EXYETLK					
BpmIRM		250	260	270	280
AcuIRM		NT - - E LGEEDVNFI VQRLLNRI I FL RVCEDRTI EKYETI K			249
BsgIRM		QP - - T I QENELNDI VQS YLNRI I FL RVCEDRNL ETYQTL			257
ThaRM		N - - S LNVNVI NEVVQRI LDRLI F I RII I EDRNI ESKEFLK			270
		NQDKHLTQDEVDES VQRI LDRLI F I RNAEDRGL EENQLQS			250

Figure 10-1

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	XI XXXXE- - - - -	XXEL XDL F KXX DRK F N SGL F D F X D HT	
	290	300	310
BpmIRM	SI K N - - - - -	YEEL KDL F Q K S D R K F N S G L F D F I D D T	279
AcuIRM	N F A S S N D - - - - -	F S A L I D K F K Q A D R C Y N S G L F D Q L L T E	290
BsgIRM	E I V E M H E Q D N S I S V K N E L D K L C I E L N K K F N G - - L V F H D H T		308
ThaIRM	I L R Q W Y E K G K G - H L M K E I S R I Y K D F D D K Y N S - - K L F A H H		286
	LXXEXXI D N E V L I V I I X X L Y Y P K S P - - -	Y D F S V I X S D I L G	
	330	340	350
BpmIRM	L L L E V E I D S N V L I E I F S D L Y F P Q S P - - -	Y D F S V V D P T I L S	316
AcuIRM	Q I I E D I S S - - V F W V I I K Q L Y Y P E S P - - -	Y S F S V F S S D I L G	325
BsgIRM	F V N E A L I D N E I L I V I I D N L Y Y P K S P - - -	Y N F R L I K P E I L G	345
ThaIRM	L C D D L Y I D N E A L Q E V I E G L N H S K D D S Y R Y D F S V I E S D V L G		326
	N I Y E X F L G E K I X I E X G K T X L X X X X X N X X X - - -	G V V Y T P S Y I	
	370	380	390
BpmIRM	Q I Y E R F L G Q E I I I E S G G T F H I T E S P E V A A S N G V V P T P K I I		356
AcuIRM	N I Y E I F L S E K L V I N Q S R V E L V K K P E N L D R - - -	D I V T T P T F I	363
BsgIRM	R I F E Q F L G E K I E I I D G K I T L G L K D I N K K S G -	G V Y Y T P S Y I	384
ThaIRM	N I L K S T P - K R A K L E E S K T H R K E Q - - - - -	G I Y Y T P S Y I	357
	V E X I V K N T V X P K X X - G K T X E E L X Q L K I A D I A C G S G S F L I S		
	410	420	430
BpmIRM	V E Q I V K D T L T P L T E - G K K F N E L C N L K I A D I C C G S G T F L I S		395
AcuIRM	I N D I L R N T V L P K C Y - G K T D I E I L Q L K F A D I A C G S G A F L L E		402
BsgIRM	V E K I V E N T L S K K L H N D I T I E N L E Q I K I A D I A C G S G S F L I S		424
ThaIRM	V D Y I V K N T V G E Y I K - T H T P E E I K K V R I L D P A C G S G S F L I R		396
	S Y K X L X D K X X X X Y X X X X X D D S Q - - - - -	L V X X X X G X L X L T	
	450	460	470
BpmIRM	S Y D F L V E K V M E K I I E E N I D D S D - - - - -	L V Y E T E E G L I L T	429
AcuIRM	L F Q L L N D T L V D Y Y L S S - - D T S Q - - - - -	L I P T G I G T Y K L S	434
BsgIRM	S Y K Y L I D K F Q Y I Y S K C S E A D V Q T L I S N N L V F I D N G K L M L T		464
ThaIRM	A Y K E L E N Y W K Q N S D F A Q L T L D S - - - - -	E E F	421
	Y E X K R X I L X N N I F G V D X D P X A V E V A K L S L L K L L E G E - - X		
	490	500	510
BpmIRM	L K A K R N I L E N N L F G V D V N P Y A V E V A E F S L L L K L L E G E N E A		469
AcuIRM	Y E I K R K V L L S C I F G I D K D L N A V E A A K F G L L L K L L E G E D V Q		474
BsgIRM	M E H K K G I L Q Q N I F G V D I D S Q A I Q V A K L S L Y I T M L E E G - - Y		502
ThaIRM	Y S K K V E I L R N N I Y G V D L D P K A V E I A Q L N L L Q I L E K K - - -		459
	S X X N X R - - - - - P I L P D L X D N I K X G N S L X D N - - - - - P E X L		
	530	540	550
BpmIRM	S V N N F I H E H E D K I L P D L T S I I K C G N S L V D N K F F E F M P E S L		509
AcuIRM	S I A N I R - - - - - P V L P D L L D N I L F G N S L L E - - - - - P E K V		502
BsgIRM	R E G T L R - - - - - P I L P D L N D N I K H G N S I I D N - - - - - E I L		530
ThaIRM	Q R L P L L Q N N I K V G N S - - - - - L		474

Figure 10-2

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	EDDXI	XXDXNX	-	-	FEWE	-	FPDI	MXNGGF	DVII	I	GNPP	YV	
BpmIRM			570			580			590		600		
AcuIRM	EDDEI	L	FKANP	-	-	FEWE	EEFPDI	MANGGF	DAII	I	GNPP	YV	
BsgIRM	ELD-	H	QVEVN	-	-	-	-	PLDFSDL	KFDVI	VGNPP	Y	546 Box I	
ThaRM	FEDDI	NYDI	DATLPFDWE	YAFPDI	I	DNGGF	DVII	L	GNPP	YI	530	(Motif I)	
	I	DDPSI	SDRAFKWEEE	-	-	FPEI	MKI	GGFDTI	I	GNPP	YV	570	
												510	
	RI	QNMK	XXXXPX	EXXXYX	KK	-	-	YXVA	AKKNFDI	YFLFI	EK		
BpmIRM		610		620		630		640					
AcuIRM	RI	QNMKKYS	SPEEI	EYYQS	KDSE	YTVAKKETV	DKYFLFI	ER				586 Box F	
BsgIRM	KSEDMKNI	T	PLELPL	YKKN	-	-	YVSAYKQF	DKYFL	FLER			566	
ThaRM	RI	QI	FEELYGKD	VVNYLKK	-	KYVSAEKFNFDI	YVVFI	EK				608 (Motif I)	
	RI	QNL	NDE	-	-	ETGWFNKT	-	-	FKSAYKNY	DI	YLLFVEK	543	
	AL	XLL	NEXG	I	L	GYI	VPSKFF	XTXYGKKL	RELI	TEKKXL	YK		
BpmIRM		650		660		670		680					
AcuIRM	AL	ILL	NPT	GLL	GYI	I	PHKFFI	TKGGKE	L	RKF	I	AEKHQI	
BsgIRM	GL	ALL	KEEG	I	LG	YI	VPSKFT	KVGAGKKL	RELL	TDKGYL	DS	626 Box G	
ThaRM	AL	SLL	NDQGI	I	LG	YI	VMNKFF	TTQYGEKL	RELI	TSQKLL	YE	606	
	SFDLCKENG	I	I	GF	I	PSKFI	NAYYGL	GLRNLI	SETKSL	YK	648 (Motif II)		
												583	
	Box G (Motif II)						Box H (Motif III)						
	I	I	DFGXNQI	FXDAATYTCI	L	I	L	LXKT	KDXFKY	XXXVXNL	XT		
BpmIRM		690		700		710		720					
AcuIRM	I	I	NFGVT	QVFPG	RATYTA	I	AI	L	I	QANKMAQF	KVKSNI	SA	
BsgIRM	I	V	FGANQI	FQDKTT	YTC	CL	LI	LRKTP	HTDF	KYAEVRNL	I	D	
ThaRM	I	I	DFGI	NEI	FNNATT	YTC	CI	LI	LDKTNP	DEI	II	ERVI	
	L	I	DFKD	VQI	FGDA	ANYTC	CI	LFLK	I	YKNDVFSY	I	FPKSTD	
	WT	XXSXSNXXVXSX	-	XXLX	-	SDPWI	LSS	NEXEEVYXKF					
BpmIRM		730		740		750		760					
AcuIRM	ET	L	DSEENT	CVYSS	-	EKYN	-	SDPWI	FL	SPETE	AVFTKF	702	
BsgIRM	WK	VRK	ADAME	FSSSQL	STLQ	-	SDAWI	L	I	PSEL	I	SVYHQI	
ThaRM	WK	AGESS	DRKVVDH	-	TEFT	-	STPWY	L	SSNT	DEEI	YKFF	684	
	FTI	QSVSNVDT	FQEYKL	PLPKPDHPWI	L	FLKI	YKNDVFSY	I	SENKVSEL	I	RKL	724	
												663	
	X	EXXXXXLEXI	S	-	I	DNI	FVGL	QT	SADXVY	I	FXPEXETXDTY		
BpmIRM		770		780		790		800					
AcuIRM	TEA	-	QFEKLGEI	TDI	SVGL	QT	SADKI	YI	FI	PENETSD	TY	740	
BsgIRM	LAQSQK	LEDI	VGI	DNI	FNGI	QT	SANDVY	I	FVPT	THEDTEN	Y	724	
ThaRM	EENMV	LLET	I	S	-	DRV	FVG	Q	DCDPVY	I	LEE	YEEENYL	
	SRKG	I	PLEI	I	S	-	KNI	FQSL	TT	SADGI	YFV	QVESET	762
												701	
	YFX	-	KKG	X	YEY	KI	EKX	I	L	KPXL	KGXS	-	-
BpmIRM		810		820		830		840					
AcuIRM	I	FN	-	YKGK	RYEI	EKSI	CCPAI	YDLS	-	-	FGSFESI	QGN	774
BsgIRM	YFI	-	KKG	QEY	KI	EKEI	TKPY	F	TTSGEDNL	YTYRT	FKPN	762	
ThaRM	YCK	SEY	TT	EVHK	FEKD	DHL	KPFL	KGSL	D	-	I	KKYTF	SNVN
	KI	RNI	KN	NLE	FAVE	KTI	LRK	LL	KGKD	-	-	I	RRCSVDWKG
													737

Figure 10-3

	AXVI F PYT XXDXXAXLI PLXTI KXXFPLAYKYLXSXKEXL	850	860	870	880	
BpmIRM	AQMI F PYEI RDE EAYL LEEETL ENDYPLAWNYL NEFKEAL					814
AcuIRM	ARVI Y PYT QTTESSVELI PLDEI REI FPLAYKYL MSLKFVL					802
BsgIRM	KWL F PYT NSENTSDLI PETTYKQYFPETWKYLESCKERL					839
ThaRM	SYVVYPYL VKDDKASLI TLSEI KDRYPLAYEYFKHYELQL					777
	XX- KRSI XXR- - - - XNEWHQYGRXQSLXKFX- QXKI VX					
BpmIRM	E- - KRSI QGR- - - - NP KWY QYGRS QSL SKF HDKEKLI W	890	900	910	920	846
AcuIRM	SSPKRDI KPRPKT- - - TNEWHRYGRHQSL DNCGL SQKII V					839
BsgIRM	AK- RKSIE RELDI NP NYNEWYK YI YKKNHTRMD- QLKIVF					877
ThaRM	KTREDNKLKD- - - - DENWHQYI YRKNL EKFE- QKKIVT					810
	XVLAXGXXFAI DXNG- - - FLFSGGGNGGGXXI VLPDQSXY	930	940	950	960	
BpmIRM	TVLATKPPYVLDRNN- - - LLFTGGGNG- - PYYGLI NQSI Y					881
AcuIRM	GVLSVGDKYAI DTYG- - - TLISSGGTAGYCVVALPDDCKY					876
BsgIRM	PAISKGSSFCYDSDGEYYFVGSGAGGGGGAI VLPDQSXY					917
ThaRM	QVLASKNTFAIDLNG- - EFYFVGVDNAGGYGI VLNDNNQN					848
	SYYYLLGI LNSXVLEXXXXRGSXFRRGGYYSXGKKFI ENL	970	980	990	1000	
BpmIRM	SLHYFLGI LSHPVI ESMVKARASEFRGSYYSHGKQFI EKI					921
AcuIRM	SIYYLQAI LNSKYLEWFSALHGEVFRGGYI ARGTVKLKNL					916
BsgIRM	NYLSLLGI LNSEVVSYQIVRRGSKHKGSYYGVDKKRI ENL					957
ThaRM	MYYFVLALLNSNVLEFYLKNI STPFRGGYFSYGKRFIDKL					888
	PIRKI DF DNX- E- NLFDXVSTXVKELIXIXDKI XXXXNTD	1010	1020	1030	1040	
BpmIRM	PIRKI DF DDDQDEVVKYNTVVTTVEKLI ITTDRI KSESNGP					961
AcuIRM	PIRKI DF DNLEEANL HDLIAATKQKELIEI YDKIDVNVNPK					956
BsgIRM	YVPLI NEDNK- - - NLFSNI SKMVAQILDAFQKMHQAGTTD					994
ThaRM	PLLI PKD- - - - SRFDSVSSL SKEQMNI SKKMRNFPNTD					922
	RRX- XLQRRDXLXXXLNQLI YELYNLXVEEXTXXXNLX	1050	1060	1070	1080	
BpmIRM	RRR- ML RRRRLDALSNQLI QVI NELYNI SDEEYTTVLNDEM					1000
AcuIRM	RVL TPL QRMFKREKEVLDQLLSRLYNLGVDDSLIPYIKDL					996
BsgIRM	VGKEQL QQRI KMLNARI NELVYRLYNLPVEYKEYIKNALE					1034
ThaRM	ERD- LLEREYDKRCQELNQMI YEI YGLNKLEITLLDDRLC					961
	X- A- - - -					
BpmIRM	LTAALGEEK					1009
AcuIRM	YEAH					1000
BsgIRM	N					1035
ThaRM	Q					932